

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|---|------|-----|--------|--|--|---------------------|
| 1 | BRS | L23 | 26 | ((first adj metal) same (second adj metal) same (\$2situ with metal)) and (Ti or W or TiN or tungsten or titanium or (titanium adj nitride)) | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 09:04 |
| 2 | BRS | L24 | 19 | ((first adj metal) with (second adj metal) with \$2situ) and (Ti or W or TiN or tungsten or titanium or (titanium adj nitride)) | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 08:44 |
| 3 | BRS | L26 | 0 | pre adj in adj situ | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 08:46 |
| 4 | BRS | L27 | 12080 | in adj situ | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 08:47 |
| 5 | BRS | L28 | 135424 | \$3situ | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 12:14 |
| 6 | BRS | L29 | 299 | 28 and (first adj metal adj layer) | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 08:53 |

| | Type | L # | Hits | Search T xt | DBs | Time Stamp |
|----|------|-----|------|---|--|---------------------|
| 7 | BRS | L30 | 188 | 29 and (second adj metal adj layer) | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 08:56 |
| 8 | BRS | L31 | 165 | 30 and etch\$3 | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 08:55 |
| 9 | BRS | L32 | 107 | 31 and ((first adj metal adj layer) with (second adj metal adj layer)) | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 08:58 |
| 10 | BRS | L33 | 95 | 32 and (Ti or W or TiN or tungsten or titanium or (titanium adj nitride)) | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 12:16 |
| 11 | BRS | L34 | 16 | 33 and ((barrier adj layer) with (TiN or Ti or TiW)) | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 09:31 |
| 12 | BRS | L35 | 107 | 32 and (Al or Cu or W or tungsten or copper or aluminum) | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 12:19 |

| | Type | L # | Hits | Search Text | DBs | Time Stamp |
|----|------|-----|------|--|--|---------------------|
| 13 | BRS | L36 | 47 | 32 and ((second adj metal adj layer) with (Al or Cu or W or tungsten or copper or aluminum)) | USPAT ; EPO; JPO; DERW ENT; IBM_T DB | 2002/09/26 12:20 |

| | Type | Hits | Search Text |
|----|------|-------|--|
| 1 | BRS | 3 | (barrier with (first adj metal)) same (\$4situ with metal) |
| 2 | BRS | 4 | (barrier same (first adj metal)) same (\$4situ near3 metal) |
| 3 | BRS | 42 | (second adj metal) same (first adj metal) same \$4situ |
| 4 | BRS | 21 | ((second adj metal) same (first adj metal) same \$4situ) and (etch\$3 or residue) |
| 5 | BRS | 346 | (barrier with (first adj metal)) with (second adj metal) |
| 6 | BRS | 228 | ((barrier with (first adj metal)) with (second adj metal)) and (Ti or W or TiN or tungsten or titanium or (titanium adj nitride)) |
| 7 | BRS | 13467 | barrier with (Ti or W or TiN or tungsten or titanium or (titanium adj nitride)) |
| 8 | BRS | 48 | barrier with (Ti or W or TiN or tungsten or titanium or (titanium adj nitride)) with (two adj layer) |
| 9 | BRS | 2 | (barrier with (Ti or W or TiN or tungsten or titanium or (titanium adj nitride)) with (two adj layer)) and ((first adj metal) with (second adj metal)) |
| 10 | BRS | 346 | (barrier with (first adj metal) with (second adj metal)) |
| 11 | BRS | 15 | (barrier with (first adj metal) with (second adj metal)) same ((\$2situ or chamber or concurrently or simultaneously) with metal) |
| 12 | BRS | 14 | ((barrier with (first adj metal) with (second adj metal)) same ((\$2situ or chamber or concurrently or simultaneously) with metal)) and (Ti or W or TiN or tungsten or titanium or (titanium adj nitride)) |
| 13 | BRS | 626 | (barrier same (first adj metal) same (second adj metal)) |
| 14 | BRS | 24 | ((barrier same (first adj metal) same (second adj metal))) and (barrier same (first adj metal) same (second adj metal)) same ((\$2situ or chamber or concurrently or simultaneously) with metal) |

| | DBs | Time Stamp | C mments | Error Definition |
|----|--------------------------------------|------------------|----------|------------------|
| 1 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 12:41 | | |
| 2 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 12:19 | | |
| 3 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 10:13 | | |
| 4 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 10:14 | | |
| 5 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 12:21 | | |
| 6 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 13:26 | | |
| 7 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 12:31 | | |
| 8 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 12:33 | | |
| 9 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 12:34 | | |
| 10 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 15:47 | | |
| 11 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 15:49 | | |
| 12 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 15:52 | | |
| 13 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 15:49 | | |
| 14 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 15:51 | | |

| | Type | Hits | Search Text |
|----|------|------|---|
| 15 | BRS | 22 | (((barrier same (first adj metal) same (second adj metal))) and (barrier same (first adj metal) same (second adj metal)) same ((\$2situ or chamber or concurrently or simultaneously) with metal)) and (Ti or W or TiN or tungsten or titanium or (titanium adj nitride)) |

| | DBs | Time Stamp | Comments | Error Definition |
|----|--------------------------------------|------------------|----------|------------------|
| 15 | USPAT; EPO; JPO; DERWENT; IBM_TDB | 2002/09/25 15:53 | | |